CMDOT TRAFFIC OPERATIONS PERFORMANCE MANAGEMENT MOVING PEOPLE AND GOODS

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Measuring and minimizing delays in Urban Areas

- Along 9 freeways (segments only) throughout Michigan
- Two freeways at each of 15 of 22 Transportation Service Centers in 5 of 7 Regions
- Summer: Traffic incident and work zone travel
- Winter: Traffic incident and winter weather travel



Measuring and minimizing delays in Rural Areas

- Along all non-freeways segments in 2 of 7 regions
- Measuring work zone and winter weather travel
- Freeway data is not consistent enough to be useful





2013 Southwest Region Weekly User Delay Cost











Focus on the Wildly Important
Act on the Lead Measures
Keep a Compelling Scoreboard
Create a Cadence of Accountability

WIG: Limit user delay costs to the 3-year average

• Moving traffic in winter – improve winter ops

- 2012/2013: Regain normal speeds 80% of time at less than 2hours after the end of event
- 2013/2014: Maintain speeds within 10 mph of average 80% of time during morning peak travel times during winter storm events

Moving traffic in summer – optimize work zones

 Limit the non-recurring congestion delay costs to 5% less than the three-year average

WIG: Limit user delay costs to the 3-year average
 Moving traffic year-round during traffic incidents – quick clearance

 Reduce the amount of lane blockages caused by crashes lasting longer than 2-hours to 5% less than the three-year average



Regain Time: I-94 - Kalamazoo Garage



SW Region Construction Season Non-Recurring UDC





MAP-21 Performance Metrics

- Annual Hours of Delay (AHD)—Travel time above a congestion threshold (defined by State DOTs and MPOs) in units of vehicle hours of delay on Interstate and NHS corridors.
 - RITIS is currently capable to report this. MDOT will need to define the congestion threshold.
- Reliability Index (RI80)—The Reliability Index is defined as the ratio of the 80th percentile travel time to the agencydetermined threshold travel time.
 - RITIS currently uses 95th percentile instead of 80th percentile and currently doesn't allow us to put in a determined threshold travel time (it is automatically calculated).

CONDUCT TRAFFIC OPERATIONS PERFORMANCE MANAGEMENT MOVING PEOPLE AND GOODS

Questions



